

Table-1: Environmental Management Plan for Preconstruction Phase

Sl. No.	Environmental Issues	Mitigation Measures	Parameter / Indicator for Compliance	Responsible for Implementation	Responsible for Supervision	Frequency for Monitoring	Fund Sources for Implementing Mitigation Measure
1	Lack of sufficient planning to assure long-term sustainability of the improvements and ensure protection of the assets created	<ul style="list-style-type: none"> Design has included provisions for ensuring effective maintenance and protection of the assets to be created to ensure their long-term sustainability. The long-term sustainability has been ensured by taking into consideration the appropriate Bureau of Indian Standards Codes for design, Seismic Zone V coefficient, appropriate wind load factor (corresponding to 39 m/s wind speed), and detailed design after carrying geotechnical investigations and topographic survey. 	Verification of design parameters	PWD	PWD	Review after completion of detailed project report	Project cost
2	Layout of components to avoid impacts on the aesthetics of the site	<ul style="list-style-type: none"> The project components sighting will avoid impacts on the aesthetics of the site and 	RLC building exterior	PWD	PWD	Review after completion of detailed project report	Project cost

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		surroundings, and the RLC building will blend well with local buildings.					
3	Slope stability related issues	<ul style="list-style-type: none"> The plot area for RLC building is undulating and a rugged terrain, therefore, building design has considered all slope protection related measures and these protection measures are per building design code and regulatory requirements. 	Slope protection measures in building design, on side slopes of access path, internal road, access road /pathway, etc.	PWD	PWD	Review of recommended slope protection measures	Project cost
4	Increased storm water runoff from alterations of the site's natural drainage patterns due to landscaping, excavation works, construction of parking lot, and addition of paved surfaces	<ul style="list-style-type: none"> In the subproject, drainage will not be an issue as site of RLC is on undulating terrain and will help in quick drainage. Further, design of proposed RLC building design has considered drainage of plot also a parameter and as far possible natural drainage pattern around site will be maintained. The storm water 	Arrangement for proper diversion of storm water runoff	PWD	PWD	After mobilization of contractor at site and during establishment of construction camp	Incidental to construction cost

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		generated will be diverted to side drains along the slope. .					
5	Integration of energy efficiency and energy conservation programs in design of subproject components	<ul style="list-style-type: none"> The detailed designs for the subproject have ensured that environmental sustainability principles, including energy efficiency, resource recycling, waste minimization, etc. The design considers the following energy efficiency measures: <ul style="list-style-type: none"> - Usage of recyclable materials like wood substitutes. - Installation of Bureau of Energy Efficiency-certified equipment - Usage of energy efficient lighting fixtures (LED) - Provision of photovoltaic cells on roofs for solar power. 	Specifications of rain water harvesting structures, electrical fixtures, details of water heating system	PWD	PWD	During finalization of detailed project report	Project cost
6	Consents, permits, clearances, NOC, etc.	<ul style="list-style-type: none"> Obtain all necessary consents, permits, clearance, NOCs, etc. prior to start of 	Consents, permits, clearance, and NOCs'	PWD	PWD	Check consent for establishment of construction camp and approval from	Project cost

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		civil works. <ul style="list-style-type: none"> Acknowledge in writing and provide report on compliance all obtained consents, permits, clearance, NOCs, etc. 	records and communications			civic authorities for RLC construction	
7	Establishment of baseline environmental conditions prior to start of civil works	<ul style="list-style-type: none"> Conduct documentation of location of components, areas for construction zone (camp, staging, storage, stockpiling, etc.) and surroundings (within direct impact zones). Include photos and GPS coordinates. 	Records and photographs	Contractor	PWD	Once prior to construction	Contractor
8	Utilities	<ul style="list-style-type: none"> The locations and operators of utilities to be impacted should be identified and documented in detailed project report documents to prevent unnecessary disruption of services during the construction phase. As a Requirement for the subproject, the 	<ul style="list-style-type: none"> List and maps showing utilities to be shifted Contingency plan for services disruption 	<ul style="list-style-type: none"> PWD will prepare preliminary list and maps of utilities to be shifted During detailed design phase, contractor to (i) prepare list and 	PWD	Preconstruction Phase	Contractor

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		<p>contractor to prepare a contingency plan to include actions to be done in case of unintentional interruption of services.</p> <ul style="list-style-type: none"> • Obtain from the PIU and / or PWD the list of affected utilities and operators. • If relocations are necessary, contractor will coordinate with the providers to relocate the utility. 		operators of utilities to be shifted; (ii) contingency plan			
9	Social and Cultural Resources	<ul style="list-style-type: none"> • Consult Archaeological Survey of India or Himachal Pradesh State Archaeology Department to obtain an expert assessment of the archaeological potential of site. • Consider alternatives if the site is found to be of medium or high risk. • Include state and local archaeological, cultural and historical authorities, and interest groups in 	Chance find protocol	PWD	PWD	Prior to start of construction activities	Project cost

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		<p>consultation forums as project stakeholders so that their expertise can be made available.</p> <ul style="list-style-type: none"> Develop a protocol for use by the construction contractor in conducting any excavation work, to ensure that any chance finds are recognized and measures are taken to ensure they are protected and conserved. 					
10	Construction camp—location, selection, design and layout	<ul style="list-style-type: none"> Sighting of the construction camp shall be as per the guidelines below and details of layout to be approved by PWD. Seeing the site terrain, it is suggested that construction camp be established in a house in the vicinity of site. The house may be taken on rent. The storage location of construction materials shall be at 	Construction camp location, and locations of material storage areas, sanitation facilities	Contractor	PWD	At the time of construction camp establishment and finalization of storage areas	Contractor

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		<p>the RLC site or any building close to the RLC site.</p> <ul style="list-style-type: none"> The house to be hired for construction camp should have adequate sanitation and drinking water facilities. 					
11	Sources of construction materials	<ul style="list-style-type: none"> Use quarry sites and sources licensed by the Government of Himachal Pradesh. Verify suitability of all material sources and obtain approval from PIU. If additional quarries are required after construction has started, obtain written approval from PIU. Submit monthly to PWD a documentation of sources of materials. If construction materials are procured from market then ensure that these are from licensed sources through verification of royalty payment to the GOHP 	Permits issued to quarries or sources of materials	<p>Contractor</p> <p>PWD to verify sources (including permits) if additional is requested by contractor</p>	PWD	Upon submission by contractor	Project cost

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12	Access for construction material transportation	<ul style="list-style-type: none"> • Since subproject site is in an undulating terrain and also has an access through a narrow footpath, therefore, all transportation of construction materials will be manual from the main road. Hence specific traffic plan is not required. • During manual transportation of construction materials, it will be ensured that habitants of neighboring buildings are not at inconvenience. • Keep the site free from all unnecessary obstructions. 	Safe manual transport of construction materials	Contractor	PWD	During delivery of construction materials	Contractor
13	Occupational health and safety	<ul style="list-style-type: none"> • Comply with International Finance Corporation Environmental, Health, and Safety Guidelines on Occupational Health 	Health and safety plan	Contractor	PWD	During Pre construction phase	Contractor

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		<p>and Safety in developing comprehensive site-specific health and safety plan. The overall objective is to provide guidance to contractor on establishing a management strategy and applying practices that are intended to eliminate, or reduce, fatalities, injuries, and illnesses for workers performing activities and tasks associated with the project.</p> <ul style="list-style-type: none"> • Include in the health and safety plan measures such as (i) type of hazards in the construction of the RLC building, (ii) corresponding personal protective equipment for each identified hazard, (iii) health and safety training for all site personnel, (iv) procedures to be 					

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		<p>followed for all site activities, and (v) documentation of work-related accidents.</p> <ul style="list-style-type: none"> • Provide medical insurance coverage for workers. 					
14	Public consultations	<ul style="list-style-type: none"> • Continue information dissemination, consultations, and involvement or participation of stakeholders during project implementation. 	Disclosure records; consultations	PWD	PWD	<ul style="list-style-type: none"> • During update of IEE report • During preparation of site- and activity-specific plans as per environmental management plan • Prior to start of construction • During construction 	Project cost

IEE = initial environmental examination, NOC = no objection certificate, PIU = project implementation unit, PWD = Public Works Department, RLC = rural livelihood center,

Table- 2: Environmental Management Plan for Construction Phase

Sl. No.	Environmental Issues	Mitigation Measures	Parameter / Indicator for Compliance	Responsible Implementation	Responsible Supervision	Frequency for Monitoring	Sources of Fund for Implementing Mitigation Measure
1	Sanitation facilities at construction	<ul style="list-style-type: none"> • The contractor shall provide sanitation 	Construction camp	Contractor	PWD	Regularly during construction	Contractor Fee

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	camp	<p>facilities at the camp site. The camp in all probability is to be established in a house. These facilities at camp will include dust bins in adequate numbers for solid waste collection, and separate toilets for male and females</p> <ul style="list-style-type: none"> • Toilet facilities shall be maintained. The dust bins shall be regularly emptied and waste from camp site shall be disposed off at designated locations. 	sanitation facilities			phase	
2	Traffic circulation plan during construction	<ul style="list-style-type: none"> • The traffic circulation plan in the current subproject is not warranted as all construction materials, machinery and equipment are to be transported manually. • The contractor will ensure that locals are not at inconvenience. 	Manual transport of construction materials	Contractor	PWD	Every day during construction phase	Contractor fee

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3	Site clearance activities, including delineation of construction areas	<ul style="list-style-type: none"> • Only ground cover or shrubs that directly affect the permanent works or necessary temporary works shall be removed (although shrubs and vegetation presence is not much due to rocky terrain) with prior approval from the environmental expert of the Safeguards Cell. • All areas used for temporary construction operations will be subjected to complete restoration to their former conditions with appropriate rehabilitation procedures. • Photographic records shall be maintained for the temporary sites used for construction. These will help in proper restoration. 	Preconstruction records of sites and vegetation in area of construction	Contractor	PWD	Duration of site preparation	Contractor fee
4	Drinking water availability at construction camp	<ul style="list-style-type: none"> • Sufficient supply of cold potable water during summer and 	Water supply source and availability of	Contractor	PWD	Regularly during construction phase	Contractor fee

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	and construction site	<p>hot water during winter months to be provided and maintained. The drinking water will be obtained from the market. No public supply source in the vicinity of sub-project will be used for drinking or construction purposes. In the house to be hired for construction camp, it will be ensured that it has a water storage tank of sufficient capacity. At construction site of RLC drinking water availability will be ensured.</p> <ul style="list-style-type: none"> • Contractor will submit his plan on how availability of drinking water shall be assured. The original source of the water supplied by the tankers will be recorded. 	water, source of water used by the tankers				
5	Waste disposal	<ul style="list-style-type: none"> • The pre-identified disposal location shall be part of the 	Waste disposal sites, waste management	Contractor	PWD	Regularly during construction phase	Contractor fee

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		<p>comprehensive waste disposal plan.</p> <ul style="list-style-type: none"> • A solid waste management plan will be prepared by the contractor in consultation with local civic authorities. • The environmental specialist of PWD shall approve these disposal sites after conducting a joint inspection on the site with the contractor. • Contractor shall ensure that waste shall not be disposed of near natural streams and along the access path. 	plan				
6	Stockpiling of construction materials	<ul style="list-style-type: none"> • Stockpiling of construction materials will be done in such a way that it does not impact and obstruct the drainage. • Stockpiles will be covered to protect from dust and erosion. 	Subproject stockpiling sites	Contractor	PWD	Regularly during construction phase	Contractor fee
7	Arrangement for construction water	<ul style="list-style-type: none"> • The contractor shall provide a list of locations and type of 	Source of water used by the tankers	Contractor	PWD	Regularly during construction phase	Contractor fee

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		<p>sources from where water for construction shall be acquired.</p> <ul style="list-style-type: none"> To avoid disruption or disturbance to other water users, the contractor shall arrange water from the market through authorized tanker suppliers or from the local municipality and consult PWD before finalizing the source. 					
8	Soil erosion and water ponding on account of excavation	<ul style="list-style-type: none"> Slope protection measures will be undertaken as per design to control soil erosion especially on slopes of access path and boundaries of RLC construction site. The excavation works will be avoided during monsoon months to avoid erosion / land slide, stagnation of water, and vector - borne diseases. 	Boundaries of RLC site, access path slopes, etc.	Contractor	PWD		Contractor fee
9	Water pollution from construction	<ul style="list-style-type: none"> The contractor shall take all precautionary 	Subproject site	Contractor	PWD	Regularly during construction	Contractor fee

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	wastes	measures to prevent discharge of waste water from site				phase	
10	Water pollution from fuel and lubricants	<ul style="list-style-type: none"> The contractor shall ensure that all construction vehicle parking locations; fuel and lubricants storage locations; vehicle, machinery, and equipment maintenance and refueling sites shall be located at least 500 m away from the natural streams. As far as possible storage of fuels and lubricants shall be avoided at site. Any maintenance of machinery at site will not be carried out. This is to avoid spillage of waste oil and cleaning water at site. Contractor shall ensure that all vehicles and machinery, as well as equipment operation, and refueling shall be carried out in such a 	Vehicle parking, equipment refueling and maintenance	Contractor	PWD	Regularly during construction phase	Contractor fee

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		<p>manner that spillage of fuels and lubricants does not contaminate the ground surface of site.</p> <ul style="list-style-type: none"> The monitoring of ground and surface water quality will be taken up as per monitoring plan. 					
11	Soil pollution due to fuel and lubricants, construction wastes	<ul style="list-style-type: none"> The fuel storage and vehicle cleaning area will be stationed such that spillage of fuels and lubricants does not contaminate the ground. 	Vehicle maintenance and parking area, soil quality monitoring results	Contractor	PWD	Regularly during construction phase	Contractor fee
12	Siltation of water bodies due to spillage of construction wastes	<ul style="list-style-type: none"> No disposal of construction wastes will be carried out into the surface water bodies. Extraneous construction wastes will be transported to the pre-identified disposal sites for safe disposal. 	Water bodies especially natural springs near subproject site	Contractor	PWD	Regularly during construction phase	Contractor fee
13	Generation of dust	<ul style="list-style-type: none"> The contractor will take every precaution to reduce the levels of dust at 	Subproject site, air quality monitoring results, water	Contractor	PWD	Regularly during construction phase	Contractor fee

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		<p>construction sites. Water will be sprayed as required, on locations of excavations, internal unfinished roads/walkways, access path to site and locations of sand and sub grade storages. The water for spraying will be used from the water stored for construction. The water spray records will be maintained at site.</p> <ul style="list-style-type: none"> • All filling works are to be protected or covered in a manner to minimize dust generation. • The air quality monitoring will be conducted as per monitoring plan 	spray records				
14	Emission from construction vehicles, equipment and machinery	<ul style="list-style-type: none"> • All vehicles, equipment, and machinery used for construction shall conform to the relevant Bureau of India Standard norms. 	Pollution under control certificates of vehicles and machinery	Contractor	PWD	Regularly during construction phase	Contractor fee

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		<ul style="list-style-type: none"> The discharge standards promulgated under the Environment Protection Act, 1986 shall be strictly adhered to. The silent or quiet equipment available in the market shall be used in the subproject. The Contractor shall maintain a record of pollution under control for all vehicles and machinery used during the contract period, which shall be produced for verification whenever required. 					
15	Noise pollution	<ul style="list-style-type: none"> The contractor shall confirm that all construction equipment shall strictly conform to the Ministry of Environment, Forests and Climate Change and Central Pollution Control Board noise standards. Contractor must 	Certificates of vehicles conforming noise standards, noise monitoring results	Contractor	PWD	Regularly during construction phase	Contractor fee

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		<p>ensure that all equipment used in construction shall be fitted with exhaust silencers.</p> <ul style="list-style-type: none"> • At the construction sites, noisy construction work such as crushing, operation of diesel generator sets, use of high noise generation equipment shall be stopped during the night time between 10:00 p.m. to 6:00 a.m. • Noise limits for construction equipment used in this project will not exceed 75 dB(A) at 1 m distance. However, noise levels as specified in ambient noise standards (55 dB(A) during day time and 45 dB(A) during night time) will be adhered to during the construction phase. • Noise level monitoring will be 					

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		carried out as per monitoring plan.					
16	Impacts on flora and fauna	<ul style="list-style-type: none"> • Conduct site induction and environmental awareness. • Limit activities within the work area. • Plant trees and shrubs in the area/space marked for plantation in the layout. 	Records of Barricades along excavation works. Records of trees and shrubs planted by the contractor at end of construction phase.	Contractor	PWD	Regularly during construction phase	Contractor fee
17	Material handling at site	<ul style="list-style-type: none"> • Workers employed on mixing cement, lime mortars, concrete, etc., will be provided with protective footwear and protective goggles. • Workers engaged in welding works will be provided with welder's protective eye shields. • The use of any toxic chemical will be strictly in accordance with the manufacturer's instructions. The PWD will be given at least 6 working days' 	Data on available personal protective	Contractor	PWD	Regularly during construction phase	Contractor fee

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		notice of the proposed use of any chemical. A register of all toxic chemicals delivered to the site will be kept and maintained up to date by the contractor.					
18	Disposal of construction waste, debris, cut material	<ul style="list-style-type: none"> The contractor shall confirm that safe disposal of the construction waste and any surplus generated (on account of rock cutting at site and along widening of access path) will be ensured in the pre-identified disposal locations. In no case will any construction waste will be disposed off around the project site indiscriminately. 	Disposal site	Contractor	PWD	Regularly during construction phase	Contractor fee
19	Safety measures during construction	<ul style="list-style-type: none"> Adequate safety measures for workers during handling of materials at site will be taken up. The contractor has to comply with all 	Records of availability of personal protective equipment, availability of first aid kits	Contractor	PWD	Regularly during construction phase	Contractor fee

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		<p>regulations for the safety of workers. Precaution will be taken to prevent danger to workers from accidental injuries, fire, etc. First aid treatment will be made available for all injuries likely to be sustained during work.</p> <ul style="list-style-type: none"> The contractor will conform to all anti-malaria instructions given to him by the engineer. 					
20	Clearing of construction of camp and restoration	<ul style="list-style-type: none"> Contractor to prepare site restoration plans for approval by the engineer (PWD). The plan is to be implemented by the contractor prior to demobilization. On completion of the works, all temporary structures will be cleared away, all rubbish burned, excreta or other disposal pits or trenches filled in and effectively sealed off, and the site left clean 	Restoration plan, and records of preconstruction of temporary sites	Contractor	PWD	End of construction phase	Contractor fee

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		and tidy, at the contractor's expense, to the entire satisfaction of the PWD.					

NOC = no objection certificate, PIU = project implementation unit, PWD = Public Works Department, RLC= rural livelihood Center.

Table-1: Environmental Monitoring Plan for RLC Bharmour for Preconstruction, Construction, and Defect Liability Period

Sl. No.	Field (environmental attribute)	Phase	Parameters to be Monitored	Location	Frequency	Responsibility
1	Air Quality	During preconstruction phase	Nitrogen oxide, sulfur dioxide, carbon monoxide, particulate matter (both 10 micrometers and 2.5 micrometers or less in diameter)	RLC construction site	Once in the preconstruction phase to establish baseline	Contractor through approved monitoring agency
		During construction phase			Once in every season (except monsoon season) during construction phase (24 months construction phase)	
		Defect Liability Period			Once in every season (except during monsoon season) during defect Liability Period	
2	Water quality	During preconstruction phase	Total dissolved solids, total suspended solids , pH, hardness, biochemical oxygen demand, fecal coliform	RLC construction site ground water	Once in preconstruction phase to establish baseline	Contractor through approved monitoring agency
		During construction phase			Once in every season (except monsoon season) during construction phase	
		Defect Liability Period			Once every season except during monsoon season during Defect	

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					Liability Period	
3	Noise levels	During preconstruction phase	Leq (Day), Leq (Night), Lmax and Lmin	RLC construction site	Once in preconstruction phase to establish baseline	Contractor through approved monitoring agency
		During construction phase			Once in every season (except monsoon season) during construction phase	
		Defect Liability Period			Once in every season except monsoon season during Defect Liability Period	

RLC = Rural Livelihood center.